

ABSTRACT

A high-refractive-index optical silicone oil comprising a pentasiloxane having the
5 formula $\text{RMe}_2\text{SiO}(\text{Me}_2\text{SiO})_3\text{SiMe}_2\text{R}$ wherein Me is methyl, each R is independently a C_8 to
 C_{12} aralkyl, and the silicone oil has a refractive index of from 1.45 to 1.50 at 25 °C; a method
of preparing a high-refractive-index optical silicone oil; a high-refractive-index optical
silicone oil mixture comprising a pentasiloxane having the formula
 $\text{RMe}_2\text{SiO}(\text{Me}_2\text{SiO})_3\text{SiMe}_2\text{R}$ wherein Me is methyl, each R is independently a C_8 to C_{12}
10 aralkyl, and a disiloxane having the formula $\text{RMe}_2\text{SiOSiMe}_2\text{R}$ wherein Me and R as defined
above and wherein the mixture has a refractive index of from 1.45 to 1.50 at 25 °C; and a
method of preparing a high-refractive-index optical silicone oil mixture.

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